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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,129	06/29/2001	Yung-Chung Kao	KA0Y3002/EM/6946	5735
23364	7590	10/06/2004	EXAMINER	
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314			BILGRAMI, ASGHAR H	
			ART UNIT	PAPER NUMBER
			2143	

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/894,129	<b>Applicant(s)</b> KAO ET AL.	
	<b>Examiner</b> Asghar Bilgrami	<b>Art Unit</b> 2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *1 Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Fangman et al (U.S. Pub No. 2002/0141390A1).

3. As per claim 1 Fangman disclosed a method of letting a single LAN port VoIP (voice over IP) device have network address translation function by means of the application of NAT (network address translation) technique of translating the private IP address of an organization into a global IP address for use in the Internet to a VoIP device having a single LAN port to let multiple handsets of said VoIP device use a global IP address in the Internet to connect the Internet through a network apparatus and to perform Internet telephone communication through said VoIP address (page 2, paragraphs 25 & 26 and page 4, paragraphs 50 & 51).

4. As per claim 2 Fangman disclosed the method of letting a single LAN port VoIP (voice over IP) device have network address translation function as claimed in claim 1 wherein said VoIP device comprises a virtual IP interface that uses NAT technique to set a global IP address,

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and a physical IP interface adapted to set a private IP address for use inside the organization in which said VoIP device is installed (page 2, paragraphs 24, 26 and page 11, paragraph 276).

5. As per claim 3 Fangman disclosed the method of letting a single LAN port VoIP (voice over IP) device have network address translation function as claimed in claim 1 wherein said VoIP device comprises a NAT conversion table adapted to store translation data of private IP address to global IP address (page 2, paragraphs 25 & 26).

6. As per claim 4 Fangman disclosed the method of letting a single LAN port VoIP (voice over IP) device have network address translation function as claimed in claim 3 wherein upon receipt of an outward packet from the inside of the organization in which said VoIP device is installed, the physical IP interface of said VoIP device uses the NAT function to convert the source IP address and port number of the outward packet into the global IP address and another port number set in said virtual IP interface, and then stores the conversion in said NAT conversion table, said another port number being given by NAT, and the said physical IP interface sends the converted global IP address and port number to the single LAN port of said VoIP device, enabling said VoIP device to connect the Internet through the single LAN port thereof subject to the global IP address (page 2, paragraphs 25 & 26).

7. As per claim 5 Fangman disclosed the method of letting a single LAN port VoIP (voice over IP) device have network address translation function as claimed in claim 3 wherein upon receipt of an inward packet from the outside of the organization by said physical IP interface,

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said virtual IP interface checks the internal NAT conversion table if there is data related to the inward packet, and then said virtual IP interface changes the destination IP address and destination port number of the inward packet back into the private IP address and port number for use internal use in the enterprise or organization, if the related data exists in the NAT conversion table, and then sends the data through said physical IP interface to the single LAN port of said VoIP device, enabling the packet message to be transmitted from the Internet through the single LAN port to the handsets of said VoIP device (page 2, paragraphs 25 & 26).

### *Conclusion*

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Edhlom (U.S. 6,772,210) disclosed method and apparatus for exchanging communications between telephone number based devices in in internet protocol environment.

Read (U.S. Pub 2004/0028035) disclosed a communications system.

Preston (U.S. Pub No 2002/0126654) disclosed homing and controlling IP telephones.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asghar Bilgrami whose telephone number is 703-305-4623 or 571-272-3907 after October 2004. The examiner can normally be reached on M-F, 8:00-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 703-308-5221 or 571-272-3923 after October 2004.


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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Asghar Bilgrami  
Examiner  
Art Unit 2143

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DAVID WILEY  
SUPERVISORY PATENT EXAMINER  
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